Process for the production of omega -amino-1-hydroxyalkylidene-1,1-bisphosphonic acid

Publication number: DE3016289

Publication date:

1981-10-29

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Classification:

- international:

C02F1/68; C02F5/14; C07F9/38; C07F9/40; C02F1/68;

C02F5/10; C07F9/00; (IPC1-7): C07F9/38

- european:

C02F1/68K; C02F5/14; C07F9/38A6U

Application number: DE19803016289 19800428 Priority number(s): DE19803016289 19800428

Also published as:

EP0039033 (A1) US4407761 (A1)

JP57031691 (A)

EP0039033 (B1)

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Abstract not available for DE3016289

Abstract of corresponding document: US4407761

A process for the preparation of a omega -amino-1-hydroxyalkylidine-1,1-biphosphonic acid of the formula wherein n is an integer from 3 to 5, consisting essentially of the steps of reacting an aminocarboxylic acid of the formula NH2-CH2-(CH2)m-COOH wherein m is an integer from 2 to 4, with a phosphonating reactant selected from the group consisting of (a) a mixture of phosphorous acid and PCI3, (b) a mixture of phosphorous acid and PCI3, hydrolyzing the reaction mixture with a strong acid which does not oxidize aminophosphonic acids, and recovering said omega -amino-1-hydroxyalkylidene-1,1-bisphosphonic acid.

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